Please amend claim 1 as follows.

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1. (amended) In a [Wye-connected] multiple phase electrical system for supplying power from an AC source to [at least one] a plurality of nonlinear [load] loads connected to [a] at least one phase line therein, a device for substantially eliminating currents in the neutral wire [generated by the nonlinear load], said device comprising:

[an] a first electrical circuit comprising

a first passive electrical component connected <u>along a phase line in said</u> <u>electrical system</u> in series [between the AC source and the] <u>with at least one of said nonlinear [load] <u>loads</u>,</u>

a second passive electrical component connected in parallel to said first passive electrical component,

a third passive electrical component connected in parallel to said first and said second passive electrical components; and

wherein said first, said second, and said third passive electrical components of said first circuit are tuned to a harmonic frequency of a fundamental frequency of the AC source so as to substantially eliminate a harmonic current drawn by [the] said at least one nonlinear load connected in series with said parallel connection of said first, said second, and said third passive electrical components.

Please amend claim 2 as follows.

2. (amended) A device as recited in claim 1, wherein:

said first, said second, and said third passive electrical components of said first electrical circuit are tuned to a third harmonic frequency of the AC source.

	Please amend claim 3 as follows.
	3. (amended) A device as recited in claim 1, wherein:
3	said first passive electrical component of said first electrical circuit comprises a
4	capacitor;
5	said second passive electrical component of said first electrical circuit comprises a
6	reactor; and
7	said third passive electrical component of said first electrical circuit comprises a
8	resistor.
	Please amend claim 4 as follows.
1	4. (amended) A device as recited in claim 2, wherein:
2	said first passive electrical component of said first electrical circuit comprises a
3	capacitor;
4	said second passive electrical component of said first electrical circuit comprises a
5	reactor; and
6	said third passive electrical component of said first electrical circuit comprises a
7	resistor.

Please amend claim 5 as follows.

5. (amended) A [harmonic] <u>neutral</u> current eliminating device as recited in claim 1, wherein:

each phase line in the electrical system [is connected] supplies power to at least one nonlinear load;

said device [comprises a plurality of said] <u>includes a second and third</u> electrical [circuits] <u>circuit</u>, each of said <u>first</u>, <u>said second and said third</u> electrical circuits being connected along a separate phase line [therein] <u>in said electrical system</u> [and] in series with at least one nonlinear load <u>whose power is supplied by said separate phase line</u>, [so as to] <u>said first</u>, <u>said second and said third electrical circuits</u> substantially eliminate a harmonic current <u>in each of said separate phase lines</u> drawn [thereby] <u>by said nonlinear loads</u>;

said second electrical circuit comprises a fourth passive electrical component, a fifth passive electrical component connected in parallel to said fourth passive electrical component, and a sixth passive electrical component connected in parallel to said fourth and said fifth passive electrical components;

said third electrical circuit comprises a seventh passive electrical component, an eighth passive electrical component connected in parallel to said seventh passive electrical component, and a ninth passive electrical component connected in parallel to said eighth and said seventh passive electrical components; and

wherein each of said <u>first</u>, <u>said second and said third</u> electrical circuits is tuned to an identical harmonic frequency of the AC source.

Please amend claim 6 as follows. 6. (amended) A [harmonic] neutral current eliminating device as recited in claim 2, wherein: each phase line in the electrical system [is connected] supplies power to at least one 3 4 nonlinear load: said device [comprises a plurality of said] includes a second and third electrical 5 [circuits] circuit, each of said first, said second and said third electrical circuits being 6 7 connected along a separate phase line [therein] in said electrical system [and] in series with at least one nonlinear load whose power is supplied by said separate phase line, [so as to] 8 9 said first, said second and said third electrical circuits substantially eliminate a harmonic current in each of said separate phase lines drawn [thereby] by said nonlinear loads; 10 said second electrical circuit comprises a fourth passive electrical component, a fifth 11 passive electrical component connected in parallel to said fourth passive electrical 12 component, and a sixth passive electrical component connected in parallel to said fourth and 13 14 said fifth passive electrical components; said third electrical circuit comprises a seventh passive electrical component, an 15 eighth passive electrical component connected in parallel to said seventh passive electrical 16 component, and a ninth passive electrical component connected in parallel to said eighth and 17 said seventh passive electrical components; and 18 wherein each of said first, said second and said third electrical circuits is tuned to a 19 third harmonic of the AC source. 20

Please amend claim π as follows.

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- 11. (amended) A device for <u>reducing currents</u> [substantially eliminating harmonic currents in an electrical system having] <u>in an electrical system which supplies power to</u> a ponlinear load [and] <u>from</u> an AC source[, and increasing the operational range of the nonlinear load], comprising:
 - a first passive electrical component connected in series with the nonlinear load;
 - a second passive electrical component connected in parallel to said first passive electrical component;
 - a third passive electrical component connected in parallel to said first and said second passive electrical component;
 - a housing member for said first, said second, and said third passive electrical components;

means for connecting the nonlinear load to said parallel connection of said first, said second and said third passive electrical components; and

wherein said first, said second, and said third passive electrical components are tuned to a third harmonic frequency of the AC source so as to substantially alter current drawn by the nonlinear load.

Please amend claim 12 as follows.

- 12. (amended) A device as recited in claim 11, [including] wherein:
- [a housing for said first, said second, and said third passive electrical components; and]

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housing so as to mount said housing in an equipment rack storing the nonlinear load; and wherein said equipment rack panel member is substantially perforated so as to allow

airflow to pass therethrough.

Please amend claim 13 as follows.

13. (amended) A device as recited in claim 11, [including] wherein:

[an electrical housing member;]

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said connecting means includes at least one electrical socket for connecting to the nonlinear load, said socket being disposed along a first surface of said housing member[;], and at least one bracket member for mounting said device along a substantially planar surface so that said socket and said first surface of said housing member are substantially aligned with said planar surface, said device substantially replacing a conventional wall outlet.

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Pleas amend claim 15 as follows.

15. (amended) A device as recited in claim 11, further including:

an isolation transformer connected between said AC source and said parallel connection of said first, said second, and said third passive electrical components;

[a housing member having] wherein said connecting means includes electrical [connectors] sockets extending therefrom for providing connection to the nonlinear load[;], and at least one bracket member for attaching said housing member to a utility cart.

Please delete claim 16 without prejudice and without dedication or abandonment of the subject matter thereof.

Please amend claim 17 as follows.

17. (amended) A device as recited in claim 11, including:

means, connected in series with said parallel [combination] connection of said first, said second, and said third passive electrical components, for [clamping] controlling current levels drawn by the nonlinear load, comprising a current [clamping] limiting circuit, a [sensor] circuit for detecting a rapid rise in current drawn by the nonlinear load and [means] a switch for automatically deactivating said clamping circuit based upon signal levels detected by said [sensor] current detecting circuit.

Please amend claim 18 as follows.

18. (amended) A device as recited in claim 17, wherein:

said first, said second, and said third [devices] electrical components are tuned to a third harmonic frequency of the AC source.

Please amend claim 19 as follows.

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19. (amended) A device as regited in claim 18, wherein:

said current level [clamping] <u>hinting</u> circuit maintains a maximum current level drawn by the nonlinear load to between approximately 6 and 8 amps[; and

the nonlinear load includes a heating unit].

Please add the following new claims 20-21.

-20-

A device as recited in claim 1, wherein:

each phase line in the electrical system supplies power to at least one nonlinear load; said device includes a second electrical circuit, each of said first and said second electrical circuits being connected along a separate phase line therein in said electrical system and in series with at least one nonlinear load whose power is supplied by said separate phase line, said first and said second electrical circuits substantially eliminate a harmonic current in each of said separate phase lines drawn by said nonlinear loads;

said second electrical circuit comprises a fourth passive electrical component, a fifth passive electrical component connected in parallel to said fourth passive electrical component, and a sixth passive electrical component connected in parallel to said fourth and said fifth passive electrical components;

wherein each of said first and said second electrical circuits is tuned to an identical harmonic frequency of the AC source.